

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for identifying an agent that increases store-mediated Ca²⁺ entry (SMCE) and glucose uptake in a mammalian cell, the method comprising:
contacting a mammalian cell with a candidate agent;
determining whether the candidate agent increases store-mediated Ca²⁺ entry (SMCE) into the cell; and
determining whether the candidate agent increases glucose uptake in the cell.

2-6. (Cancelled)

7. (Currently Amended) A method for identifying an agent that increases store-mediated Ca²⁺ entry (SMCE) and glucose uptake in a mammalian cell, the method comprising:
contacting a mammalian cell with a candidate agent, wherein the candidate agent increases SMCE into the cell;
measuring glucose uptake in the cell in the presence of the candidate agent; and
determining whether the candidate agent increases glucose uptake in the cell, wherein increased glucose uptake in the cell in the presence of the candidate agent compared to the absence of the candidate agent indicates that the candidate agent increases glucose uptake.

8-17. (Cancelled)

18. (Previously Presented) The method of claim 1, wherein the glucose uptake is insulin-stimulated glucose uptake.

19. (Cancelled)

20. (Previously Presented) The method of claim 7, wherein the glucose uptake is insulin-stimulated glucose uptake.

21. (Previously Presented) The method of claim 1, wherein the mammalian cell is a skeletal muscle cell.

22. (Cancelled)

23. (Previously Presented) The method of claim 7, wherein the mammalian cell is a skeletal muscle cell.

24. (Previously Presented) The method of claim 18, wherein the mammalian cell is a skeletal muscle cell.

25. (Cancelled)

26. (Previously Presented) The method of claim 20, wherein the mammalian cell is a skeletal muscle cell.

27. (New) The method of claim 1, wherein the mammalian cell is a human cell.

28. (New) The method of claim 7, wherein the mammalian cell is a human cell.

29. (New) The method of claim 18, wherein the mammalian cell is a human cell.

30. (New) The method of claim 20, wherein the mammalian cell is a human cell.

31. (New) The method of claim 21, wherein the mammalian cell is a human cell.

32. (New) The method of claim 23, wherein the mammalian cell is a human cell.

33. (New) The method of claim 24, wherein the mammalian cell is a human cell.

34. (New) The method of claim 26, wherein the mammalian cell is a human cell.